

Untitled

title: US-10-536-935A-1
 Perfect score: 1497
 Sequence: 1 at ggcaacagt acat cagaa. gaat at t cat t aagct at aa 1497

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RESULT 1

ABL88606

ID ABL88606 standard; DNA; 1497 BP.

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AC ABL88606;

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DT 20-MAY-2002 (first entry)

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DE Fungal cell wall synthesis related polynucleotide SEQ ID NO 1.

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KW Fungi; transport; GPI anchor protein; cell wall; biosynthesis; fungicide;
 KW antifungal; 1-(4-n-butylbenzyl)isoquinoline; gene; ds.

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OS Saccharomyces cerevisiae.

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PN WQ200204626-A1.

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PD 17-JAN-2002.

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PF 06-JUL-2001; 2001WQ-JP005899.

XX

PR 07-JUL-2000; 2000JP-00206968.

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PR 17-OCT-2000; 2000JP-00316027.

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PA (EISA) EISA CO LTD.

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PI Tsukahara K, Hata K, Sagane K, Nakamoto K, Tsuchiya M,
 PI Watanabe N, Coa F, Tsukada I, Ueda N, Tanaka K, Kai J;

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DR WPI; 2002-241441/29.

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DR P-PSDB; ABB88538.

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PT Fungal cell wall synthesis gene encoding protein related to transport
 PT process of GPI anchor protein to cell wall, useful in screening
 PT inhibitors for development into antifungal agents.

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PS Claim 1; Page 213-216; 297pp; Japanese.

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CC The invention relates to a DNA overexpressed in fungi that encodes a
 CC protein imparting tolerance to compounds that inhibit the transport
 CC process of the GPI anchor protein to the cell wall in fungi. The
 CC inhibitors have fungicide activity through inhibition of fungal cell wall
 CC synthesis. The gene and encoded protein are useful in screening for
 CC inhibitors for development into antifungal agents, particularly for
 CC patients with opportunistic fungal infection. A gene imparting tolerance
 CC to e.g. 1-(4-n-butylbenzyl)isoquinoline can be identified. Such
 CC antifungals are likely to be more effective because of its novel
 CC mechanism of action. The present sequence is that of a polynucleotide of
 CC the invention

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SQ Sequence 1497 BP; 429 A; 269 C; 275 G; 524 T; 0 U; 0 Other;

Untitled

Query Match 100.0% Score 1497; DB 6; Length 1497;
 Best Local Similarity 100.0% Pred. No. 0;
 Matches 1497; Conservative 0; M smatches 0; Indels 0; Gaps 0;

Qy	1	ATGCCAACAGTACATCAGAAGAATATGTGACTTTAAAAACAGAGAAAAGGACATTTGTG	60
Db	1	ATGCCAACAGTACATCAGAAGAATATGTGACTTTAAAAACAGAGAAAAGGACATTTGTG	60
Qy	61	ACAGGGCTCAATGGGGTTCTATAACAGAAATTAACGAGTGACATCAATTGCTTTGGTA	120
Db	61	ACAGGGCTCAATGGGGTTCTATAACAGAAATTAACGAGTGACATCAATTGCTTTGGTA	120
Qy	121	ACTTACATATCATGGAACCTATTGAAAAATTCCAACTTATGCTCTGGCATTTCACG	180
Db	121	ACTTACATATCATGGAACCTATTGAAAAATTCCAACTTATGCTCTGGCATTTCACG	180
Qy	181	GTGCAATACATAATTGATTTGCATTGAACCTGGGTTGCTTGCCTCTATCTATTACTATT	240
Db	181	GTGCAATACATAATTGATTTGCATTGAACCTGGGTTGCTTGCCTCTATCTATTACTATT	240
Qy	241	TATGCTAGTGAACATACCTTCTAAACAAGCTAATACTGTTAOCCTTGTTTGCCTGCACTT	300
Db	241	TATGCTAGTGAACATACCTTCTAAACAAGCTAATACTGTTAOCCTTGTTTGCCTGCACTT	300
Qy	301	ATATATGAAAAATTTACTAGCTGAGTAAACCTTCTAATCCAATATACAATAAAAAAAA	360
Db	301	ATATATGAAAAATTTACTAGCTGAGTAAACCTTCTAATCCAATATACAATAAAAAAAA	360
Qy	361	ATGATTACACAGGGTTCCAACAGAAAAAAGCGGTATATTACTGCGTATCGTGGTGGG	420
Db	361	ATGATTACACAGGGTTCCAACAGAAAAAAGCGGTATATTACTGCGTATCGTGGTGGG	420
Qy	421	ATGCTTATTCTGACTGCTATTGCCATCTTGGCTGTAGATTTTCCAATTTTCCCAAGGAGG	480
Db	421	ATGCTTATTCTGACTGCTATTGCCATCTTGGCTGTAGATTTTCCAATTTTCCCAAGGAGG	480
Qy	481	TTTGCCAAAGGTGGAACCTTGGGGACATOCCTGATGGATCTTGGTGTAGGATCATTCGTT	540
Db	481	TTTGCCAAAGGTGGAACCTTGGGGACATOCCTGATGGATCTTGGTGTAGGATCATTCGTT	540
Qy	541	TTTCAGTAACGGTATTGTTTCTTCTAGGGCACTGTTGAAAAOCTTAAGCTTGAAGAGTAAA	600
Db	541	TTTCAGTAACGGTATTGTTTCTTCTAGGGCACTGTTGAAAAOCTTAAGCTTGAAGAGTAAA	600
Qy	601	CCACAGCTTCTTAAAAAATGCATTTAATGCCTTAAAAATCAGGAGGAACCTCATTTGTCTTA	660
Db	601	CCACAGCTTCTTAAAAAATGCATTTAATGCCTTAAAAATCAGGAGGAACCTCATTTGTCTTA	660
Qy	661	GGATTGCTGAGGTTGTTTTTTGTAAAAAATTTGGAATATCAAGAACATGTCACAGAATAT	720
Db	661	GGATTGCTGAGGTTGTTTTTTGTAAAAAATTTGGAATATCAAGAACATGTCACAGAATAT	720
Qy	721	GGGGTTCATTGGAATTTTTTATCACCTATCATTGTTGCCACTTGTATTGACCTTTATT	780
Db	721	GGGGTTCATTGGAATTTTTTATCACCTATCATTGTTGCCACTTGTATTGACCTTTATT	780
Qy	781	GATCCGGTCACAAGAAATGGTTCACGCTGCTCAATTGCAATATTCAATTCATGCATTTAT	840
Db	781	GATCCGGTCACAAGAAATGGTTCACGCTGCTCAATTGCAATATTCAATTCATGCATTTAT	840
Qy	841	GAATGGCTACTTTTTAAAGGAGATGACACTTTAAACTTTTTAATTTTGGCTGATAGAAT	900

Untitled

Db 841 GAATGGCTACTTTTAAAGGACGATGGCACTTTAAACCTTTTAAATTTTGCGTGATAGAAAT 900

Qy 901 TGTTCCTTCAGTGCTAATAGAGAAGGCATCTTCTCATTTCTAGGTTATTGCTCGATTTTT 960

Db 901 TGTTCCTTCAGTGCTAATAGAGAAGGCATCTTCTCATTTCTAGGTTATTGCTCGATTTTT 960

Qy 961 CTTTGGGGCAAAAACAGGGATTTTACTTGTTGGGAAATAAACCAACTTTAAACAATCTT 1020

Db 961 CTTTGGGGCAAAAACAGGGATTTTACTTGTTGGGAAATAAACCAACTTTAAACAATCTT 1020

Qy 1021 TATAAGCCTTCTACGCAAGACGTAGTTGCAGCATCAAAGAAGTCTTGCAGCTTGGGACTAT 1080

Db 1021 TATAAGCCTTCTACGCAAGACGTAGTTGCAGCATCAAAGAAGTCTTGCAGCTTGGGACTAT 1080

Qy 1081 TGGACTTCAGTAACCCATTAAAGTGGGCTCTGTATATGGAGTACAATTTTTCTTGTTATC 1140

Db 1081 TGGACTTCAGTAACCCATTAAAGTGGGCTCTGTATATGGAGTACAATTTTTCTTGTTATC 1140

Qy 1141 AGCCAGTTGGTTTTTCAATAACCATCCTTATAGTGTTTCAAGAAGGTTTGTAACTTACCA 1200

Db 1141 AGCCAGTTGGTTTTTCAATAACCATCCTTATAGTGTTTCAAGAAGGTTTGTAACTTACCA 1200

Qy 1201 TATACTTTTGGGGTCATTACTTATAATTTACTATTTTTGACTGGGTAAGTCTTACTGAC 1260

Db 1201 TATACTTTTGGGGTCATTACTTATAATTTACTATTTTTGACTGGGTAAGTCTTACTGAC 1260

Qy 1261 AAAATTTTGGTAATTCCTCGGAATATTATAAAGTTGGGAATGCTTGAATCAATCAAC 1320

Db 1261 AAAATTTTGGTAATTCCTCGGAATATTATAAAGTTGGGAATGCTTGAATCAATCAAC 1320

Qy 1321 TCCAATGGGTTGTTTTATTTTTGTTGGCAAAATGTCTCTACTGGTTTGTGCAATATGTCT 1380

Db 1321 TCCAATGGGTTGTTTTATTTTTGTTGGCAAAATGTCTCTACTGGTTTGTGCAATATGTCT 1380

Qy 1381 ATGGTCAAGTAGATTCCTCAOCCTTAAAATCAATCTGCTGGTTTTGTTGGCATACTGCTCA 1440

Db 1381 ATGGTCAAGTAGATTCCTCAOCCTTAAAATCAATCTGCTGGTTTTGTTGGCATACTGCTCA 1440

Qy 1441 TTCATAGCTGTCAATATCGGTTTTCTTGATAGAAAAAGAATATTCATTAAGCTATAA 1497

Db 1441 TTCATAGCTGTCAATATCGGTTTTCTTGATAGAAAAAGAATATTCATTAAGCTATAA 1497